STATE COLLEGE AT WORCESTER

Catalog 1964-1966

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The Commonwealth of Massachusetts

STATE COLLEGE AT WORCESTER

Established 1871

Accredited by:

National Council of Accreditation of Teacher Education
New England Association of Colleges and Secondary Schools

Member of:

Massachusetts Council on Teacher Education
New England Teacher-Preparation Association
Eastern States Association of Professional Schools for Teachers
American Association of Colleges for Teacher Education

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All material in this catalogue subject to change.
Supplementary information may be obtained at the college.

The Commonwealth of Massachusetts

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HELGA E. PETERSON, B.S., Ed.M.	Education
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Supervisors of Laboratory Experiences

ELIZABETH V. FOSTER, B.S., Ed.M., Ed.D., Director
MADELIN A. WILMARTH, B.S., Ed.M.
VERA M. DOWDEN, B.S., Ed.M.
HELEN G. SHAUGHNESSY, B.S., Ed.M.
JOSEPH P. SCANNELL, B.S., Ed.M.
THOMAS TODD, JR., B.S., Ed.M.

Schools of Observation

(Affiliated with State College for the purpose of observation and participation)

Chandler Street Junior High School
May Street School — Tatnuck School

Chandler Street Junior High School

PAUL J. CORCORAN	Principal
DORIS M. JOYCE	English
FRANK L. WARREN	Mathematics
FRANCIS L. SCHLOSSER	Social Studies

May Street School

MARY E. V. SHEA	Principal
HELEN KENNEY	Kindergarten
DOROTHY McQUEENEY	Grade 3
GERTRUDE C. SULLIVAN	Grade 3

Tatnuck School

WINIFRED C. KENNEDY	Principal
DONALD F. MORAN	Grade 6
MARY E. BRENNAN	Grade 3

Office Personnel

JOSEPH A. MINAHAN	Assistant to the President
WILLIAM J. BUTLER	Principal Bookkeeper
G. RICHARD FRIEND	Senior Bookkeeper
FRANCES T. PARK	Senior Clerk and Stenographer
CATHERINE M. HEALY	Senior Clerk
E. EVELYN COTE	Junior Clerk
ALICE M. SMITH	Junior Clerk

Health Services

CHARLES J. JAWORSKI, M.D.	College Physician
AUGUSTA H. KRESSLER, M.D.	College Physician
ALICE B. SAWYER, R.N.	College Nurse

COLLEGE CALENDAR

1964-1965

September 9-14, 1964	Orientation of Freshmen
September 14, 1964	Registration for upper classmen
September 15, 1964	Classes begin
October 12, 1964	Columbus Day — no classes
November 11, 1964	Veterans' Day — no classes
November 25, 1964	Thanksgiving recess begins at noon
November 30, 1964	Classes resumed at 9 A.M.
December 18, 1964	Christmas recess begins at 5 P.M.
January 4, 1965	Classes resumed at 9 A.M.
January 18-22, 1965	Semester examinations
January 25, 1965	No classes
January 26, 1965	Second semester begins
February 19, 1965	Winter recess begins at 5 P.M.
March 1, 1965	Classes resumed at 9 A.M.
April 15, 1965	Spring recess begins at 5 P.M.
April 26, 1965	Classes resumed at 9 A.M.
May 26 — June 3, 1965	Final Examinations
May 30, 1965	Baccalaureate
May 31, 1965	No classes — observation of Memorial Day
June 4, 1965	Class Day
June 5, 1965	Alumni Day
June 7, 1965	Commencement

1965-1966

September 7-13, 1965	Orientation of Freshmen
September 13, 1965	Registration for upper classmen
September 14, 1965	Classes begin
October 12, 1965	Columbus Day — no classes
November 11, 1965	Veterans' Day — no classes
November 24, 1965	Thanksgiving recess begins at noon
November 29, 1965	Classes resumed at 9 A.M.
December 17, 1965	Christmas recess begins at 5 P.M.
January 3, 1966	Classes resumed at 9 A.M.
January 17-21, 1966	Semester examinations
January 24, 1966	No classes
January 25, 1966	Second semester begins
February 18, 1966	Winter recess begins at 5 P.M.
February 28, 1966	Classes resumed at 9 A.M.
April 8, 1966	Good Friday — no classes
April 15, 1966	Spring recess begins at 5 P.M.
April 25, 1966	Classes resumed at 9 A.M.
May 30, 1966	Memorial Day — no classes
May 26 — June 2, 1966	Final examinations
June 3, 1966	Class Day
June 4, 1966	Alumni Day
June 5, 1966	Baccalaureate
June 6, 1966	Commencement

THE HISTORY AND DEVELOPMENT OF STATE COLLEGE AT WORCESTER

"The design of the normal school is strictly professional, that is, to prepare in the best possible manner the pupils for the work of organizing, governing and teaching the public schools of the Commonwealth. . . . To this end there must be the most thorough knowledge; first of the branches of learning required to be taught in the school, second, of the best methods of teaching these branches, and third, of right mental training."

Thus the Massachusetts State Board of Education, by a vote passed May 6, 1880, stated the design and purpose of Worcester Normal School. Through the years a constancy of purpose and a devotion to the ideals and standards of suitable and adequate teacher preparation have motivated and directed the growth of the State College. In 1960 in line with the growing need for more opportunities for higher education for the students of Massachusetts, the Legislature authorized that the college should be known as State College at Worcester.

Buildings of the College:

The Worcester School Board at its meeting of November 1, 1870, appointed a committee "to take such action as may be necessary to secure the establishment of a State Normal School in this city." The first building, designed to accommodate 200 students, was erected on a five-acre tract of land at Eastern Avenue and Normal Street. In 1896 a new gymnasium was built adjoining the main building. By 1928 the enrollment of 285 students was beyond the capacity of the existing building, so that in 1929 the Legislature authorized the construction of a new building. The following year the city purchased land at Chandler and May Streets and presented it to the State for the new college. The building was dedicated in April, 1932. At that time the name of the school became State Teachers College at Worcester.

In 1942 a large tract of land was deeded to the college; this land bordering the campus protected it from encroaching building developments and allowed space for additional facilities. In 1958 the construction of a new building and the remodeling of the present building have provided additional library, classroom, laboratory, gymnasium and recreation facilities. Building plans for the future include additional classroom and laboratory space with increased facilities for student-faculty conferences and professional experiences.

Students:

In 1874 a student body of sixty-nine entered the school; they had been accepted as qualified from ninety applicants, and "none were admitted who did not show intelligence, aptitude and enthusiasm for teaching." On July 12, 1876, the first class of ten students

CLASSROOM AND ADMINISTRATION BUILDING

was graduated. Since that time graduates have taught throughout the United States and have made valuable contributions to the educational profession. Since the foundation of the Alumni Association in 1880, there have been many tangible evidences of the graduates' interest, support, and cooperation.

Faculty:

E. Harlow Russell, the first principal with a faculty of five members, was a pioneer in the investigation of the child as a problem of instruction and helped to advance the study and knowledge of child life. In line with these studies, the students engaged in systematic observation in schools and in actual practice in teaching under the joint supervision of the city superintendent of schools and of the faculty of the college. With slight modifications this practice has been retained through the ensuing years with the close cooperation of the school staffs in the environs of Worcester. At the present time there are over sixty members on the college faculty with backgrounds of preparation and experience from a diversity of educational and professional sources.

Curricula:

From 1874 to 1921, both two-year and three-year courses were offered. In 1921 the three-year course became a four-year course with the degree of Bachelor of Science being given. In 1929 the two-year course was dropped. In 1935 all entering students were required to spend four years with the degree of Bachelor of Science in

LIBRARY AND GYMNASIUM BUILDING

Education being granted. In 1947 the right to grant the Master of Education degree was awarded to the college. Graduate courses have been offered in late afternoon extension courses and at summer school in order to facilitate the in-service program of training for teachers. The Board of Education empowered the college to grant the Bachelor of Arts degree in 1959 and subsequently the name of the college was changed to State College at Worcester.

Firsts:

State College at Worcester has a number of "firsts" of which it is justifiably proud. It was the first women's college in Worcester to offer a bachelor's degree. It was the first Massachusetts teachers college to have a chapter of Kappa Delta Pi, the national honor society in education. It pioneered in offering courses in early childhood education. It was the first teachers college in Massachusetts to be accredited by the American Association of Colleges for Teacher Education. In addition to this accreditation by the later-named National Council for Teacher Education, the college was accredited by the New England Association of Colleges and Secondary Schools in 1957.

Future:

The future of State College at Worcester points to an ever-expanding program of professional and material growth. In September 1963, over 1100 students registered at the college and the trend is toward a substantial increase in future years. Supplementary courses to meet the complex societal and professional demands for teachers will be added. Additional facilities and materials will be provided for rich and varied learning experiences. In the future as in the past State College at Worcester will continue to provide high standards of service and support to the professional preparation of teachers.

CURRICULA OFFERED

Undergraduate Courses Leading to Bachelor of Science in Education Degree

1. A four-year curriculum preparing for teaching in the early childhood education field.
2. A four-year curriculum preparing for teaching in the elementary field.
3. A four-year curriculum preparing for teaching in the secondary field.
4. A one-year curriculum for graduates of liberal arts colleges, leading to a Bachelor of Science in Education degree.

During the first two years the emphasis is on general education to provide a rich background. Decision concerning the selection of curriculum is made at the end of the freshman year.

English, French, social studies, history, and mathematics-science are major fields in the junior and senior high school curriculum. Each student in the secondary curriculum prepares in one major and one minor field. Any of the above fields, plus mathematics, may be a minor field. At least twenty-four semester hours must be earned in a major field and eighteen semester hours in a minor field.

Undergraduate Courses Leading to Bachelor of Arts Degree

Beginning in September 1963, the Bachelor of Arts curriculum will consist of three major programs. The majors are English, history, and a foreign language. At least thirty semester hours must be earned in a major field. Twenty-four semester hours in a minor field must be completed. As the college facilities are enlarged, majors in mathematics and science may be offered.

Graduate Courses Leading to the Master of Education Degree

Beginning in January 1963, the requirements for the graduate degree which is offered regularly at Worcester State College will include thirty-three semester hours in graduate courses, in twenty-seven of which the honor mark of "A" or "B" must be earned. Of the thirty-three semester hours of credit required, twenty-seven must be earned in graduate courses taken on the campuses of the Massachusetts State Colleges, twenty-one of which must be taken on the campus of the State College at which the degree is to be granted. The remaining six may be taken in approved off-campus extension courses or may be transferred from approved graduate schools. After admission to the program, courses taken for graduate credit at colleges other than the college granting the degree must be approved in advance.

The regulations require that a program of study must be arranged in advance for each student who is a candidate for the Ed.M. degree. The Worcester State College pattern has been constructed by its Committee on Graduate Study, and all graduate students should arrange a conference with the Chairman of the Committee at their earliest convenience.

Copies of the Regulations Governing Courses Leading to the Degree of Master of Education, and of the graduate courses being offered currently may be secured by addressing inquiries to the Director of Continuing Studies.

REQUIREMENTS FOR ADMISSION

I. General Qualifications.

Every candidate for admission as a regular student must meet the following requirements:

1. Health.

The candidate must be in good physical condition and free from any disease, infirmity, or other defect which would render him unfit for public school teaching. A statement from the family physician and examination by the college physician are required evidences in this regard.

2. High School Graduation.

Candiate must have a high school diploma or equivalent preparation.

3. Completion of Sixteen Units of High School Work.

The "HIGH SCHOOL RECORD" must show the completion of sixteen units accepted by the high school in fulfillment of graduation requirements or the candidate must present evidence of equivalent preparation.

"A unit represents a year's study in any subject of a secondary school so planned as to constitute approximately one-fourth of a full year of work for a pupil of normal ability. To count as a unit, the recitation periods shall aggregate approximately 120 sixty-minute hours. Time occupied by shop or laboratory work counts one-half as much as time in recitation."

4. Personal Interview.

A satisfactory personal interview of each candidate by faculty members of the college is required.

5. Personal Characteristics.

The results of the personal interview and the moral character of the candidate must, in the judgment of the

President of the State College, warrant the admission of the candidate. The recommendation of the high school principal will be given consideration in determining the fitness of the candidate for the profession of teaching.

II. Specific Qualifications for the Bachelor of Science in Education Degree Program.

Successful completion of:

1. College Entrance Examination Board Scholastic Aptitude Tests.

2. College Entrance Examination Achievement Tests in English and in two other areas related to the applicant's major field of study.

Specific Qualifications for the Bachelor of Arts Degree Program.

Successful completion of:

1. College Entrance Examination Board Scholastic Aptitude Tests.

2. College Entrance Examination Achievement Tests in English, foreign language, and history or social studies.

III. Submission of "Application for Admission" and "High School Record."

1. A completed form entitled "APPLICATION FOR ADMISSION TO A STATE COLLEGE." This application may be submitted on or after October 1 of the senior year.

2. Through the high school principal, his high school record on a form entitled "HIGH SCHOOL RECORD" which includes "RATINGS OF PERSONAL CHARACTERISTICS."

These forms may be obtained from the high school or college.

IV. Time of Admission.

1. Plan I applicants (see V. A. below) may file applications and may be admitted at the end of the first quarter or first marking period of the senior year provided that they submit marks for the first marking period and have successfully completed the College Entrance Board Scholastic Aptitude Tests and other examinations. (See II).

2. Plan II applicants (see V. B. below) may be considered for admission on the basis of marks submitted through the first

two marking periods of the senior year provided that they have successfully completed the College Entrance Examination Board Scholastic Aptitude Tests and other tests. (See II).

V. Methods of Admission.

A. Plan I.

Admission by academic evaluation is granted to candidates as follows: On the basis of A = 4, B = 3, C = 2, D = 1, candidates who have an average of not less than 3.0 in the highest 16 units of high school work will be admitted provided they have successfully completed the College Entrance Examination Board Scholastic Aptitude Tests and Achievement Tests.

Prescribed. These 16 units must include the following 8 units.

English (including Grade XII)	4 units
American History and Government	1 unit
Algebra	1 unit
Geometry	1 unit
Biology, or Physics, or Chemistry	1 unit

NOTE:

Applicants for the Bachelor of Arts Program must also meet the following Additional Requirement:

Foreign Language	2 Units in a Language

Distribution of units for Applicants Admitted by Evaluation.

The units must be so distributed that the number offered in any field, including the prescribed units, shall not be more than the following:

English, 4 units; Social Studies, 4 units; Science, 4 units; Foreign Languages, 7 units (no credit accepted for less than 2 units of any one language); Mathematics, 4 units; Business Subjects, 2 units; Fine and Industrial Arts, 2 units; Home Economics, 2 units.

B. Plan II.

Students who are not eligible for admission by academic evaluation as described in the foregoing, but who possess a high school diploma or its equivalent, are interested in teaching, and qualify under General Qualifications stated under I, may be admitted to the State Colleges on successful completion of the College Entrance Examination Board Scholastic Aptitude Tests

and prescribed achievement tests provided they present high school credits in the following subjects:

English through Grade XII	4 units
American History	1 unit
Mathematics	2 units
Science	1 unit

The standing of the applicant will be determined by the examination scores and the prescribed high school credits.

NOTE:

Applicants for the Bachelor of Arts Program must also meet the following Additional Requirement:

Foreign Language	2 units in a language

VI. Waiting Lists.

If the number of applicants qualified for admission, following the administration of any of the entrance examinations, exceeds the number that the facilities of the College will accommodate, a waiting list will be established.

The position of the candidate will be determined according to the numerical grade including an evaluation of the prescribed high school credits and the College Entrance Examination Board Aptitude Test scores.

The eight prescribed high school credits will be evaluated as follows:

A = 4
B = 3
C = 2
D = 1

Vacancies occurring between examinations will be filled from the established list. A new waiting list will be compiled after each administration of the Scholastic Aptitude Tests.

VII. Place and Time of Examinations.

Candidates applying for admission by examination may take the College Board Examinations at any of the centers where these examinations are regularly given.

The Bulletin of Information, obtainable without charge from the College Entrance Examination Board, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application blank bound in. This application blank may be used for any College Board Examination.

New marking system effective school year 1964-65:

A = 4

B = 3

C = 2

D = 1

E = 0

Candidates should make application by mail to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

VIII. Admission as Transfer Students.

Students who have attended or who are graduates of colleges accredited by the National Council for Accreditation of Teacher Education or approved by the Massachusetts Board of Collegiate Authority may apply for transfer credit. All acceptance of transfer credit shall be subject to the regulations of the Division of State Colleges and of this college. Entrance requirements as to scholastic attainment, character, personality and physical fitness must be met. Personal interviews are required of all persons being considered for acceptance as transfer students. Inquiries should be directed to the Director of Admissions for further details.

COLLEGE YEAR BEGINS

September 16, 1963 September 14, 1964

REQUIREMENTS FOR PROMOTION AND GRADUATION

1. A system of quality points is in force in all the State Colleges and the Massachusetts College of Art. Under this system, grades will be given the following values: A—4 to 5, B—3 to 3.9, C—2 to 2.9, D—1 to 1.9, E—0.

2. The number of quality points a student receives in a course is determined by multiplying the total number of semester hours in the course by the corresponding number of quality points, e.g., a six-semester-hour course with a rating of "4" has a value of 24 quality points. The average is computed by dividing the total number of quality points by the total number of semester hours.

3. The average of the grades required for promotion or graduation is 2.0. Students with an average less than 2.0 must withdraw from the college unless permission to repeat the year is given by the Director of the State Colleges on the recommendation of the President for such reasons as illness, home difficulties or similar circumstances.

Students with an average of less than 1.5 at the end of any semester may be dropped from the College. They may be permitted to re-enter with permission of the Director of State Colleges on the recommendation of the President, for such reasons as illness, home difficulties and similar circumstances.

4. Incomplete grades must be made up within eight weeks after the opening of the following semester. (No course may be

marked "incomplete" unless 80 percent of the work has been done at the time of discontinuance.)

5. The determination of quality points is made at the end of each college year and, excepting when the year is repeated, the number of points is not affected by grades in courses subsequently taken and passed.

6. "E" grades can never be removed, but the subjects in which they have been received must be repeated and passed, or in the case of electives, other approved courses must be passed either in approved summer sessions, or when possible, during the regular college year. Continuing subjects in which "E" grades have been received, must be successfully repeated before the student may take advanced work.

7. The grade for a repeated or alternate course will be recorded in the college records as follows: "Repeated or alternate course ..... passed at ..... with a grade of ....."
(Name) (College)

EXPENSES

The following summary indicates as nearly as possible the regular expenses for which each student must plan in an annual budget.

I. Fee for Residents of Massachusetts

$200.00 a year: $100.00 to be paid at the opening of the college year in September and $100.00 at the opening of the second semester.

II. Fee for Non-Residents of Massachusetts

$600.00 a year: $300.00 to be paid at the opening of the college year in September and $300.00 at the opening of the second semester.

III. Fee for All Students

Each applicant for admission to the State College at Worcester must pay a registration fee of $20.00 following notification of acceptance of admission. This fee will be deducted from the tuition of students who attend and will be forfeited by those who do not attend. Refunds for students leaving the college within six weeks after the beginning of the semester will be based on the regularly-established schedule of refunds, minus the registration fee. This regulation became effective for students entering on or after September 1, 1955.

IV. Additional Expenditures for All Students

A student assessment of $30.00 is charged each student, payable at the beginning of first semester. This fee is to cover the following items for the entire year:

1. Shower fee
2. College parties
3. Admission to all public performances of the Dramatic and Glee Clubs
4. College publications
5. Benevolences
6. Expenses of Student Advisory Council
7. Expenses of New York Conference
8. Expenses of miscellaneous activities
9. Admission to athletic contests
10. Class dues

V. Textbooks and Supplies

Students are expected to meet the expense of all necessary textbooks and supplies at an approximate cost of $80.00 a year.

VETERANS EDUCATION

The College is an approved institution for providing education for the returned veteran under Public Laws No. 346, No. 16, and No. 550.

SCHOLARSHIP TEA

SCHOLARSHIPS FOR STUDENTS

For Incoming Freshmen and Upperclassmen

The William B. Aspinwall Scholarship
The M. Harriette Bishop Scholarship
The Nancy Burncoat Scholarship
The Gold Star Scholarship (Daughter or Son of Veteran only)
The Alumni Scholarship
The Tryphosa Bates-Batcheller Scholarship
The Esther Forbes Scholarship
The Newman Club Scholarship
The Olive Higgins Prouty Scholarship
The Student Christian Association Scholarship

For Upperclass Woman Student

The Esther C. Averill Scholarship

Students are selected for these scholarships on the basis of scholarship and need. The number of scholarships awarded is determined each year by the Scholarship Committee. In addition to these outright grants, the President of the College has at his disposal funds which may be borrowed by deserving students according to their needs. Applications for scholarships should be made by April 1.

STUDENT ACTIVITIES

There are many opportunities for students to take an active part in extra-class activities while in college. Most of the organizations are open to all students. It is the intent of the college to have a sufficient variety of activities which are suited to the needs and interests of the students. Many of the club periods are scheduled during the school day and meetings are held frequently.

It is hoped that each student will examine the program and purposes of the various clubs and organizations, then decide those to which he may make the greatest contributions and from which he will derive the most benefit as a person and as a prospective teacher.

Class Organization

The first organization to which every student belongs when he enters college is his class. Officers are chosen and a program of activities is inaugurated. Although many of these are of a social nature, there are numerous opportunities for the student to participate and to gain experience in working with the administration, faculty, and fellow classmates.

Athletics

The athletic activities are promoted and organized by the men's and women's athletic associations. Intra-mural games and other recreational activities are sponsored.

The College is a member of the New England State College Conference, and varsity basketball and baseball are played by the men in conjunction with other state colleges in the New England area.

Music

One of the largest organizations of the college is the choir. This is made up of men and women who are selected on a try-out basis. In addition to the Christmas and Spring concerts, the choir frequently participates in exchange concerts and programs given at hospitals and other civic organizations.

Publications

For the student who likes to write and who may have written previously for school publications, the "Acorn," the college newspaper, and the "Oakleaf," the college yearbook, provide opportunity for additional experience in journalism. Both publications serve a valuable purpose in recording the highlights of the college years.

Education Associations

There are two educational organizations at the college which

offer professional association for the prospective teacher. The organizations provide programs of social and educational interest with students participating at the local, state, and national levels.

The Association for Childhood Education International is open to all students who are interested in the problems of good education for young children.

The Student National Education Association is affiliated with the National Education Association. As one of the largest organizations on campus it provides opportunities for the prospective teacher to participate in educational programs.

Christian Fellowship

The Newman Club and the Student Christian Association provide opportunity for the students to enjoy Christian fellowship through study, religious education, and recreation. Both organizations are service organizations in addition to providing individual personal benefits to the students.

Literary Organizations

In addition to the literary opportunities provided by the publications of the college, there are three other organizations which provide literary experiences for the students. The Dramatic Club presents a major production annually and also several one-act plays. The Robert W. Fox Memorial Debating Society holds frequent intercollegiate debates which provide experiences in research and presentation techniques on the contemporary problem chosen as the Collegiate Debate Question of the Year. The Literary Club has as its purpose the creation of greater interest in the field of literature through lectures, attendance at plays, discussions, and visits to places of literary significance.

Subject Matter Clubs

There are numerous clubs on campus which provide stimulation and experiences for the students who are interested in a particular field or major area. Lectures, film strips, demonstrations, and discussion provide inspiration and encouragement to the student who participates actively in these organizations. Some of these clubs are the Audio-Visual Aids Association, Cercle Francais, La Corte Castellana, International Relations Club, and Science Club.

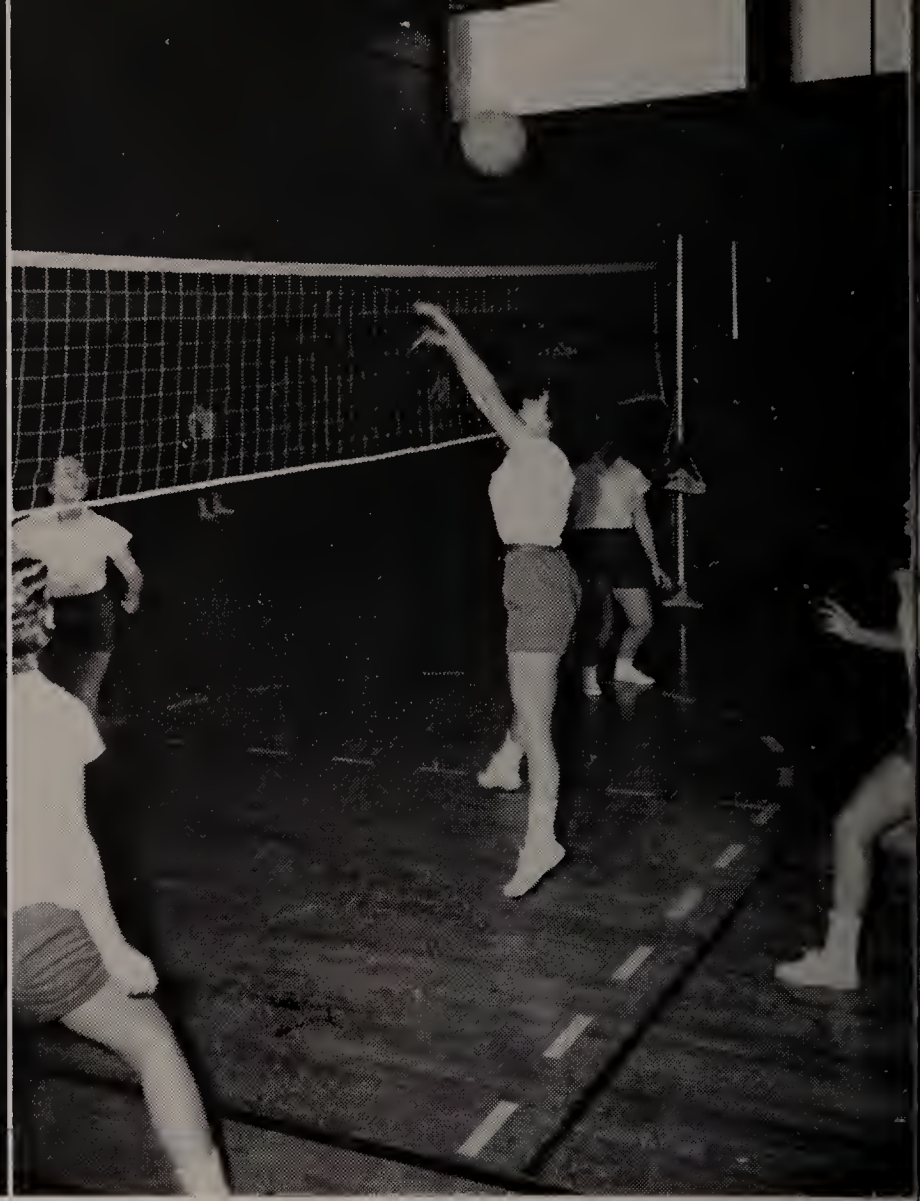
The following organizations are not open to all students on an elective basis but any student is eligible for admission on the basis of special abilities and qualities.

The Student Advisory Council is one of the most important organizations on campus because of its liaison position between the administration and the student body. It is considered an honor to be elected to serve on this council.

The Student Public Relations Association which consists of class officers and club presidents has as its purpose the notification of the public of the outstanding achievements of the students.

Membership in Gamma Chi Chapter of Kappa Delta Pi, the national honor society in education, is restricted to qualifying students who meet the high academic requirements from the Junior and Senior classes.

All organizations have faculty sponsors who work closely with the students and the administration in attaining valuable and worthwhile activities beyond those provided in college classes.



PHYSICAL EDUCATION

We Participate That

MUSIC

SOCIAL STUDIES

We May Learn

SOCIAL

LIBRARY

We Learn That

JUNIOR HIGH SCHOOL GRADES

SCIENCE

We May Teach

ELEMENTARY GRADES

PROGRAM LEADING TO THE BACHELOR

Elementary School Curriculum

FRESHMAN

General Education

FIRST SEMESTER	SEMESTER HOURS
Eng45-101 English Composition I	3
Eng45-103 Principles of Effective Speech	½
HPE45-101, 103 Physical Education	½
HPE4-105 Health Education	1
S45-101 Biology	3
P4-101 General Psychology	3
H45-101 History of Western Civilization	3
Elective	3
	17

SECOND SEMESTER	SEMESTER HOURS
Eng45-102 English Composition II	3
Eng45-104 Principles of Effective Speech	½
HPE45-102, 104 Physical Education	½
HPE4-106 Health Education	1
S45-102 Biology	3
H45-102 History of Western Civilization	3
M4-102 Introduction to Mathematics	3
Elective	3
	17

Elective Courses

S4-103E Botany	3
Ed1-101E Early Childhood Education I	3
FL4-101E Intermediate French	3
M4-103E College Algebra and Solid Geometry	3
H4-103E World Affairs	3
Eng4-105E Introduction to Poetry I	3

S4-104E Invertebrate Zoology	3
Ed1-102E Early Childhood Education II	3
FL4-102E Intermediate Franch	3
M4-104E College Algebra and Solid Geometry	3
H4-104E World Affairs	3
Eng4-106E Introduction to Poetry II	3

SOPHOMORE

General Education

FIRST SEMESTER	SEMESTER HOURS
Ed4-201 Improvement of Handwriting	½
Eng45-201 Voice and Diction	½
Eng45-203 Survey of American Literature	3
HPE45-201, 203 Physical Education	½
S45-201 Physical Science	3
FA1-201 Introduction to Music	3
H45-201 United States History and Government	3
G4-201 Principles of Geography	3
	16½

SECOND SEMESTER	SEMESTER HOURS
FA1-202 Art Essentials	3
Eng45-202 Voice and Diction	½
Eng45-204 Survey of English Literature	3
HPE45-202, 204 Physical Education	½
S45-202 Physical Science	3
H45-202 United States History and Government	3
G4-202 Geography of North America	3
HPE1-206 First Aid	½
	16½

OF SCIENCE IN EDUCATION DEGREE

Elementary School Curriculum

JUNIOR

FIRST SEMESTER	SEMESTER HOURS
Ed1-303 Art as Education	2
Ed1-305 Curriculum Development	4
Ed1-307 Teaching of Handwriting	½
Ed1-309 Teaching of Reading	3
HPE4-301 303 Physical Education	½
Ed1-311 Teaching of Arithmetic	3
Ed1-313 Teaching of Music	2
P15-301 Educational Psychology	3
	18

SECOND SEMESTER	SEMESTER HOURS
Ed1-302 Apprenticeship	12
Ed1-02 Educational Seminar	0
Eng1-310 Oral Interpretation	½
P1-302 Child Psychology	2
	14½

Elective Courses

Ed1-301E Early Childhood Education III (optional) 3

No Electives

SENIOR

FIRST SEMESTER	SEMESTER HOURS
Ed1-409 History and Philosophy of Education	2
Ed1-407 Language Arts in the Elementary School	4
Ed1-411 Nature Study	2
Ed1-413 Teaching of Social Studies	2
SS1-401 Economics	3
G1-401 Regional Geography — Western Hemisphere	3
	16

SECOND SEMESTER	SEMESTER HOURS
Ed1-404 Measurement and Evaluation	3
Eng1-406 Contemporary Literature	3
Ed1-406 Teaching of Science	2
P1-402 Psychology of Adjustment	2
SS1-402 Sociology	3
G1-402 Regional Geography — Eastern Hemisphere	3
	16

Elective Courses

Ed1-401E Early Childhood Education IV (optional) 3

No Electives

PROGRAM LEADING TO THE BACHELOR

Junior and Senior High School Curriculum

FRESHMAN

General Education

FIRST SEMESTER	SEMESTER HOURS
Eng45-101 English Composition I	3
Eng45-103 Principles of Effective Speech	½
HPE45-101, 103 Physical Education	½
HPE4-105 Health Education	1
S45-101 Biology	3
P4-101 General Psychology	3
H45-101 History of Western Civilization	3
Elective	3
	17

SECOND SEMESTER	SEMESTER HOURS
Eng45-102 English Composition II	3
Eng45-104 Principles of Effective Speech	½
HPE45-102, 104 Physical Education	½
HPE4-106 Health Education	1
S45-102 Biology	3
H45-102 History of Western Civilization	3
M4-102 Introduction to Mathematics	3
Elective	3
	17

Elective Courses

S4-103E Botany	3
FL4-101E Intermediate French	3
M4-103E College Algebra and Solid Geometry	3
H4-103E World Affairs	3
Eng4-105E Introduction to Poetry I	3
FL3-103E Introductory Spanish I	3

S4-104E Invertebrate Zoology	3
FL4-102E Intermediate French	3
M4-104E College Algebra and Solid Geometry	3
H4-104E World Affairs	3
Eng4-106E Introduction to Poetry II	3
FL3-104E Introductory Spanish II	3

SOPHOMORE

General Education

FIRST SEMESTER	SEMESTER HOURS
Ed4-201 Improvement of Handwriting	½
Eng45-201 Voice and Diction	½
Eng45-203 Survey of American Literature	3
HPE45-201, 203 Physical Education	½
S45-201 Physical Science	3
H45-201 United States History and Government	3
G4-201 Principles of Geography	3
Elective	3
	16½

SECOND SEMESTER	SEMESTER HOURS
Eng45-202 Voice and Diction	½
Eng45-204 Survey of English Literature	3
HPE45-202, 204 Physical Education	½
S45-202 Physical Science	3
H45-202 United States History and Government	3
G4-202 Geography of North America	3
Elective	3
	16

Elective Courses

S3-203E Microbiology	3
Eng3-205E Nineteenth Century Poetry	3
FL3-201E Survey of French Literature	3
M3-201E Introduction to Mathematical Analysis	3
H3-203E Modern History of Western Europe	3
S3-205E Physics I	3
FL3-203E Intermediate Spanish I	3

SS3-202E Education for Citizenship	3
Eng3-206E Modern Literature	3
FL3-202E Survey of French Literature	3
M3-202E Introduction to Mathematical Analysis	3
H3-204E Diplomatic History of Modern Europe	3
S3-206E Physics II	3
FL3-204E Intermediate Spanish II	3
S3-208E Anatomy	3

OF SCIENCE IN EDUCATION DEGREE

Junior and Senior High School Curriculum

JUNIOR

FIRST SEMESTER	SEMESTER HOURS
Ed35-315 Secondary Education	2
HPE3-301, 303 Physical Education	½
HPE3-305 First Aid	½
FA3-303 History and Literature of Music	3
FA3-301 Art Essentials	3
Electives	6
	15

SECOND SEMESTER	SEMESTER HOURS
Ed3-306 Curriculum Development	4
Ed3-310 Reading in Junior and Senior High School	3
HPE3-302, 304 Physical Education	½
P3-304 Educational Psychology	3
Electives	6
	16½

Elective Courses

Choose one subject from each group.

Group I

S3-301E Chemistry I	3
G3-301E Geomorphology	3
H3-301E History of U. S. Foreign Policy	3
Eng3-303E Shakespeare	3

Group II

M3-301E Calculus	3
G3-303E Climatology	3
FL3-303E Seventeenth Century French Literature	3
H3-303E Colonial American History	3
Eng3-305E Eighteenth Century Literature	3

Choose one subject from each group.

Group I

S3-302E Chemistry II	3
FL3-304E Advanced French Composition	3
H3-302E Ancient History	3
Eng35-304E World Classics I: Ancient and Medieval	3
G3-304E Geography of Europe	3

Group II

H3-304E Era of Nationalism and Sectionalism	3
Eng35-306E World Classics II: Renaissance and Modern	3
G3-302E Geography of Asia	3
M3-302E Calculus	3

SENIOR

FIRST SEMESTER	SEMESTER HOURS
Ed3-403 Apprenticeship	12
Ed3-03 Educational Seminar	0
P1-401 Psychology of Adolescence	2
Ed3-415, 423 Teaching Methods in Major Field	2
	16

SECOND SEMESTER	SEMESTER HOURS
Ed3-408 History and Philosophy of Education	2
Ed3-412 Measurement and Evaluation	3
SS3-404 Sociology	3
SS3-406 Economics	3
Electives	6
	17

Elective Courses

No Electives

S3-402E, 404E Organic Chemistry	6
Eng3-402E, 404E World Drama	6
FL3-402E, 404E Modern French Literature	6
S3-406E, 408E Physics III	6
G3-404E Economic Geography	3
G3-406E Political Geography	3
H3-402E The Emergence of Modern America	3
H3-404E Early National Period of the United States, 1783-1829	3

PROGRAM LEADING TO THE

ENGLISH MAJOR

FRESHMAN

FIRST SEMESTER	SEMESTER HOURS
Eng45-101 English Composition I	3
HPE45-101, 103 Physical Education	½
Eng45-103 Speech	½
*Foreign Language	3
H45-101 History of Western Civilization	3
M5-101 Introduction to Mathematics	3
FA5-103 Music	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-102 English Composition II	3
HPE45-102, 104 Physical Education	½
Eng45-104 Speech	½
*Foreign Language	3
H45-102 History of Western Civilization	3
P5-102 General Psychology	3
FA5-102 Art	3
	16

SOPHOMORE

FIRST SEMESTER	SEMESTER HOURS
Eng45-203 Survey of American Literature	3
HPE45-201, 203 Physical Education	½
Eng45-201 Speech	½
*Foreign Language	3
H45-201 United States History	3
†Science (Choice of Biology, Chemistry, Physics)	3
SS5-201 Economics	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-204 Survey of English Literature	3
HPE45-202, 204 Physical Education	½
Eng45-202 Speech	½
*Foreign Language	3
H45-202 United States Government	3
†Science	3
SS5-204 Sociology	3
	16

*Choice of a foreign language may be made from Intermediate French or other French elective being offered, or from Introductory Spanish. The foreign language for the second year must be a continuation of the choice of the first year.

†The science chosen must be continued for two semesters.

BACHELOR OF ARTS DEGREE

ENGLISH MAJOR

JUNIOR

FIRST SEMESTER	SEMESTER HOURS
Eng5-301 Chaucer	3
Eng5-303 Shakespeare	3
Elective	3
Minor	8
	17

SECOND SEMESTER	SEMESTER HOURS
Eng5-302 Creative Writing	3
Eng5-308 17th Century Literature	3
Elective	6
Minor	3
	15

Elective Courses

Eng5-307E The English Renaissance 3
*

Eng35-304E, 306E World Classics 6
*

SENIOR

FIRST SEMESTER	SEMESTER HOURS
Eng5-401 World Drama	3
Eng5-403 Literature of the Romantic Period	3
Minor	11
	17

SECOND SEMESTER	SEMESTER HOURS
Eng5-402 World Drama	3
Eng5-408 Literature of the Victorian Period	3
P5-404 Philosophy	3
Elective	3
Minor	2
	14

Elective Courses

No Electives

Eng5-406E Contemporary Literature 3
*

*See other Major Programs for other electives.

PROGRAM LEADING TO THE

FRENCH MAJOR

FRESHMAN

FIRST SEMESTER	SEMESTER HOURS
Eng45-101 English Composition I	3
HPE45-101, 103 Physical Education	½
Eng45-103 Speech	½
FL5-101 Intermediate French	3
H45-101 History of Western Civilization	3
M5-101 Introduction to Mathematics	3
FA5-103 Music	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-102 English Composition II	3
HPE45-102, 104 Physical Education	½
Eng45-104 Speech	½
FL5-102 Intermediate French	3
H45-102 History of Western Civilization	3
P5-102 General Psychology	3
FA5-102 Art	3
	16

SOPHOMORE

FIRST SEMESTER	SEMESTER HOURS
Eng45-203 American Literature	3
HPE45-201, 203 Physical Education	½
Eng45-201 Speech	½
FL5-201 Survey of French Literature	3
H45-201 United States History	3
†Science (Choice of Biology, Chemistry, Physics)	3
SS5-201 Economics	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-204 English Literature	3
HPE45-202, 204 Physical Education	½
Eng45-202 Speech	½
FL5-202 Survey of French Literature	3
H45-202 United States Government	3
†Science	3
SS5-204 Sociology	3
	16

†The science chosen must be continued for two semesters.

BACHELOR OF ARTS DEGREE

FRENCH MAJOR

JUNIOR

FIRST SEMESTER	SEMESTER HOURS
FL5-301 Advanced French Composition	3
FL5-303 17th Century French Literature	3
Elective	3
Minor	8
	17

SECOND SEMESTER	SEMESTER HOURS
FL5-302 Advanced French Composition	3
FL5-306 18th Century French Literature	3
Electives	6
Minor	3
	15

Elective Courses

FL5-305E Modern French Drama 3
*

FL5-308E Symbolist Movement in French Literature 3
FL5-310E Study of French Novel 3
*

SENIOR

FIRST SEMESTER	SEMESTER HOURS
FL5-401, 403 Modern French Literature	6
Minor	11
	17

SECOND SEMESTER	SEMESTER HOURS
FL5-406 French Language Seminar	3
P5-404 Philosophy	3
Electives	6
Minor	2
	14

Elective Courses

No Electives

FL5-410E Rabelais in French Renaissance .. 3
FL5-408E French Theater of the Classic Period 3
*

*See other Major Programs for other electives.

PROGRAM LEADING TO THE

HISTORY MAJOR

FRESHMAN

FIRST SEMESTER	SEMESTER HOURS
Eng45-101 English Composition I	3
HPE45-101, 103 Physical Education	½
Eng45-103 Speech	½
*Foreign Language	3
H45-101 History of Western Civilization	3
M5-101 Introduction to Mathematics	3
FA5-103 Music	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-102 English Composition II	3
HPE45-102, 104 Physical Education	½
Eng45-104 Speech	½
*Foreign Language	3
H45-102 History of Western Civilization	3
P5-102 General Psychology	3
FA5-102 Art	3
	16

SOPHOMORE

FIRST SEMESTER	SEMESTER HOURS
Eng45-203 American Literature	3
HPE45-201, 203 Physical Education	½
Eng45-201 Speech	½
*Foreign Language	3
H45-201 United States History	3
†Science (Choice of Biology, Chemistry, Physics)	3
SS5-201 Economics	3
	16

SECOND SEMESTER	SEMESTER HOURS
Eng45-204 English Literature	3
HPE45-202, 204 Physical Education	½
Eng45-202 Speech	½
*Foreign Language	3
H45-202 United States Government	3
†Science	3
SS5-204 Sociology	3
	16

*Choice of a foreign language may be made from Intermediate French or other French elective being offered, or from Introductory Spanish. The foreign language for the second year must be a continuation of the choice for the first year.

†The science chosen must be continued for two semesters.

BACHELOR OF ARTS DEGREE

HISTORY MAJOR

JUNIOR

FIRST SEMESTER	SEMESTER HOURS
H5-303 Colonial American History	3
H5-305 The Era of Nationalism and Sectionalism, 1828-1877	3
Elective	3
Minor	8
	17

SECOND SEMESTER	SEMESTER HOURS
H5-302 Ancient History	3
H5-306 History of United States Foreign Policy	3
Electives	6
Minor	3
	15

Elective Courses

H5-307E Pacific Area and the Far East 3
H5-309E History of England 3
H5-311E History of Latin America 3
*

H5-308E Modern History of Western Europe 3
H5-310E Age of Discovery, 1450-1600 3
H5-312E Modern Russian History 3
H5-314E Modern Far Eastern History 3
*

SENIOR

FIRST SEMESTER	SEMESTER HOURS
H5-401 Diplomatic History of Modern Europe	3
H5-403 Cultural History of Europe	3
Minor	11
	17

SECOND SEMESTER	SEMESTER HOURS
H5-404 Early National Period of the United States, 1783-1829	3
H5-402 The Emergence of Modern America, 1877-1915	3
P5-404 Philosophy	3
Elective	3
Minor	2
	14

Elective Courses

No Electives

H5-406E Twentieth Century America, 1915-1960 3
*

*See other Major Programs for other electives.

MINORS

A Minor may be chosen from another subject matter program or from Secondary Education. See subject matter major programs for other electives. Minor must include twenty-four semester hours.

MINOR IN SECONDARY EDUCATION

JUNIOR

FIRST SEMESTER	SEMESTER HOURS	SECOND SEMESTER	SEMESTER HOURS
Ed5-317 Reading in Junior and Senior High School	3	Ed5-308 Curriculum Development	3
Ed5-315 Secondary Education	2		
P15-301 Educational Psychology	3		

SENIOR

FIRST SEMESTER	SEMESTER HOURS	SECOND SEMESTER	SEMESTER HOURS
Ed5-423 Measurement and Evaluation	3	P5-406 Adolescent Psychology	2
Ed35-415, 423 Secondary Methods	2		
Ed5-403 Apprenticeship	6		

Course Numbering System:

The numbering of courses is done as follows. Courses are listed according to departments.

Department	Abbreviation
Education	Ed.
English	Eng.
Fine Arts	FA
Foreign Languages	FL
Geography	G
Health and Physical Education	HPE
History	H
Mathematics	M
Psychology and Philosophy	P
Science	S
Social Sciences	SS

Curriculum

A number after the department indicates the curriculum in which the course is found.

1 indicates the Elementary curriculum
3 indicates the Secondary curriculum
4 indicates both Elementary and Secondary curriculum
5 indicates the Liberal Arts curriculum

Course numbers according to classes

Freshman	101-199
Sophomore	201-299
Junior	301-399
Senior	401-499

Program of Continuing Studies

Courses carrying undergraduate credit only are numbered in the 700 series; courses carrying both undergraduate and graduate credits are numbered in the 800 series, and courses carrying graduate credit only are numbered in the 900 series.

Odd-number courses are offered the first semester; even-number courses are offered the second semester.

Non-credit courses are indicated by 0.

Elective courses are indicated by E following the course numbers

DESCRIPTION OF COURSES

The College reserves the right to make changes in course or semester offerings as necessary.

DEPARTMENT OF EDUCATION

Ed1-101E Early Childhood Education I 3 semester hours

A study will be made of the historical background and development of Nursery, Kindergarten, and Primary grades. Interpretations of the laws of learning in terms of the little child will be given through a study of materials, experiences, and activities designed to meet the needs and interests of the growing child.

Ed1-102E Early Childhood Education II 3 semester hours

Stress will be placed upon original trends, modern curriculum, games, and reasons for unification of ideas of Nursery, Kindergarten, and Primary education. Observation at each level will be provided.

Ed1-301E Early Childhood Education III 3 semester hours

This course includes a study of reading readiness activities together with work, play, and testing materials. Special attention is given to recent research, audio-visual aids, and various types of printed material, with practical observation of children.

Ed1-401E Early Childhood Education IV 3 semester hours

A practical collection of materials to be used for teaching purposes is made. Music materials are studied with stress on songs, rhythms, and rhythm band at the five-year level. Records which are prepared as a result of home visitation are reviewed.

Ed4-201 The Improvement of Handwriting ½ semester hour

This course is intended to guide students in their efforts to improve their own writing, both on paper and at the board, until it reaches an acceptable standard for classroom work. This includes not only desirable letter forms, but uniformity of slant and size, arrangement and adaptation to purpose.

Ed1-303 Art as Education 2 semester hours

This course is concerned with the place of art in the elementary school and stresses contemporary practices through laboratory experiences.

Ed1-305
Ed3-306
Ed5-308 Curriculum Development, Methods and Materials

4 semester hours

This course serves as a preparation for student teaching. Principles of learning are developed as a foundation for principles of teaching. Emphasis is given to types of lessons, techniques of assignments and study, unit and activity planning, as well as testing, grading, diagnostic procedures, and remedial teaching. Four periods are spent weekly in class work and two periods in observation and discussion of work observed in the observation schools.

Ed1-307 Teaching of Handwriting in Elementary Grades

½ semester hour

This course is one of method and is based on the preceding course. Both cursive and manuscript systems are studied. Left-handedness is given careful consideration. Chalkboard practice is continued, and teaching techniques are discussed.

Ed1-309 Teaching of Reading in Elementary Grades

3 semester hours

This course is designed to acquaint prospective teachers with the developmental and functional aspects of reading instruction in the modern elementary school. Emphasis is placed upon materials and procedures for developing the basic reading skills and upon practical techniques for improving pupil competence in study reading in the content subjects.

Ed3-310
Ed5-317 Teaching of Reading in Junior and Senior High Schools

3 semester hours

The principal emphasis of this course concerns the responsibility of the secondary-school teacher for extending and refining basic reading abilities. Particular attention is given to the reading demands of each of the content subjects and to materials and techniques designed to insure steady pupil growth in reading efficiency.

Ed1-311 Teaching of Arithmetic 3 semester hours

In this course students are introduced to efficient techniques in teaching the various phases of arithmetic in elementary grades. They plan and make many kinds of teaching materials, and learn how to use them. They examine pupil texts and seek to discover the best ways of making arithmetic really meaningful to children.

Ed1-313 Teaching Music in the Elementary Grades

2 semester hours

The place of music in the elementary curriculum with emphasis placed upon the child voice, selection and presentation of rote songs, and understandings needed by the classroom teacher for guiding growth in rhythmic, notational, and listening experiences; survey of music books and materials, recordings, and other audio-visual materials used in the elementary school music program. Prerequisite: Introduction to Music.

Ed1-302
Ed3-403
Ed5-405 Student Teaching: Bachelor of Science in Education

12 semester hours

Bachelor of Arts 6 semester hours

This course offers actual practice under helpful and sympathetic teachers in the schools of Worcester and vicinity. Members of the college supervisory staff assume responsibility for frequent supervision. The student is given opportunity to apply previously acquired theoretical knowledge, to plan lessons and assume increasing responsibility for classroom management, and to develop skill in the use of teaching techniques. During student teaching, students return to the college for class work and conferences one day each week.

Ed1-407 Language Arts in the Elementary School

4 semester hours

Part one: Teaching of Language

This phase of the course is concerned with the functional and creative aspects of oral and written expression. Consideration is given to procedures which insure the development of language power in relation to child growth.

Part two: Children's Literature

This part of the course is designed to broaden students' acquaintance with literature suitable for children and to present effective procedures for fostering lasting interests in good reading.

Ed1-411 Nature Study 2 semester hours

This course provides the student with the knowledge basic to the teaching of nature study in the elementary grades. Nature specimens used are those obtained in the fields or such as can be readily provided in any classroom.

Ed1-413 Teaching of Social Studies in Elementary Grades

2 semester hours

A study is made of the aims, principles, and methods of teaching history and geography in the elementary schools. It includes a consideration of the privileges and responsibilities of citizenship. Emphasis is placed upon choice of texts and audio-visual aids, selection of material for courses of study, types of learning activities, and testing.

Ed1-406 Teaching of Science in Elementary Grades

2 semester hours

This course provides an overview of objectives of science teaching, curricula, materials, and teaching procedures.

Ed1-02
Ed3-03 Educational Seminar 0 semester hours

During student teaching the students meet in conference for discussion of general problems of the beginning teacher. Such problems as successful management, economy of time, teaching procedures, evidences of good method, personality, professional ethics, and relationships between student and training teacher and between student and supervisor are considered.

Ed35-315 Secondary Education 2 semester hours

The objective of this course is to help the student to acquire greater knowledge and understanding of the secondary school and the needs of the adolescent pupil. Secondary education in a democracy, its historical background, its curriculum, and the community high school will be considered through readings, lectures, discussion groups, and reports.

Ed35-415 Teaching of English in Secondary Schools

2 semester hours

This course is designed to equip students with a clear understanding of effective teaching procedures and materials related to the functional and creative aspects of the teaching of English. This course is required of all students majoring in English.

Ed35-417 Teaching of Modern Languages in Secondary Schools

2 semester hours

This course provides for a brief study of the history of language teaching in the United States previous to 1940, emphasis on current modern language teaching as to philosophy and method, place of the unit in foreign language instruction, function of the

language laboratory, methods of evaluation in foreign language, and the qualifications of the language teacher. This course is required of all students majoring in a foreign language.

Ed35-419 Teaching of Mathematics in Secondary Schools

2 semester hours

This course includes classroom methods and materials in the teaching of secondary mathematics. Modern trends in secondary school mathematics will be emphasized, and reports on current mathematical bulletins, magazines, and year books will be required. This course is required for secondary school mathematics teacher certification.

Ed35-421 Teaching of Science in Secondary Schools

2 semester hours

This course considers the philosophy, theory, and practice of science teaching on the secondary school level. It provides an opportunity to develop both the theoretical insight and the practical knowledge and skills needed for higher achievement in science teaching. This course is required for secondary school science teacher certification.

Ed35-423 Teaching of Social Studies in Secondary Schools

2 semester hours

This course is designed to acquaint students with the methods and materials available for use in junior and senior high schools. The examination of courses of study and textbooks will be included. This course is required of all students majoring in history and geography.

Ed1-409
Ed3-408 History and Philosophy of Education 2 semester hours

A study is made of early forms of education in the United States and in foreign countries; of influences and movements that have brought about the present ideals and practices in education with emphasis upon current problems; of philosophies of leaders of various movements; and of the nature, scope, and function of various types of modern educational philosophies.

Ed1-404
Ed3-412
Ed5-425 Measurement and Evaluation 3 semester hours

A practical knowledge of educational testing, measurement, and evaluation techniques for group surveys and for individual diag-

nosis is emphasized. Practice is given in administering, scoring, interpreting, and evaluating a variety of standard tests. Various instruments and techniques of evaluation are presented. Topics include elementary statistical procedures, characteristics of teacher-made and standardized tests, the study and diagnosis of pupil aptitudes and abilities, test selection, and interpretation of data and school programs in measurement and evaluation.

DEPARTMENT OF ENGLISH AND SPEECH

Eng01 The Techniques of Written Expression non-credit

This course is required of freshman students who demonstrate the need for improvement in written communication.

Eng02 The Techniques of Reading non-credit

A program of corrective instruction is provided for students whose placement in the entrance examination indicates the need for training in effective reading practices. Emphasis is placed upon vocabulary expansion, improvement of reading comprehension, and development of competence in study techniques.

Eng45-101 English Composition I 3 semester hours

This course emphasizes the fundamentals of grammatical structure for both practical and imaginative writing. Literary forms, including the essay, biography, and the short story are also considered.

Eng45-102 English Composition II 3 semester hours

A continuation of English Composition I concerned with principles of good writing and desirable qualities of style. Literary forms, including the drama, the novel, and poetry are studied. Special emphasis is placed on the use of the library, techniques of research, and the writing of a formal research paper.

Eng45-103, 104 Principles of Effective Speech 1 semester hour

This course gives a detailed study of the vowel and consonant sounds of the best American speech, stresses the elimination of bad speech habits, and provides opportunity to form the habits of good speech through frequent practice in speaking and reading.

Eng4-105E Introduction to Poetry I 3 semester hours

A study is made of the universal elements in poetry, poetic meaning, description, functions, and imagery. Traditional forms are discussed, and the place of craftsmanship is stressed by means of lectures, discussions, and recordings.

Eng4-106E Introduction to Poetry II 3 semester hours

This course gives a further approach to poetic appreciation by an examination of the basic characteristics, conventions, and special effects of modern poetry. Evaluation is made of the effectiveness of the figurative language and symbolism. Modern techniques are discussed and creative work is required.

Eng45-201, 202 Voice and Diction 1 semester hour

This course continues the practice of frequent speaking and reading situations. Special emphasis is placed on the development of the voice.

Eng45-203 Survey of American Literature 3 semester hours

The course provides comprehensive overview of the outstanding contributions of American writers and of major literary trends reflective of changing emphasis in American civilization.

Eng45-204 Survey of English Literature 3 semester hours

This course gives a survey of the development of English literature from Beowulf to Thomas Hardy, including consideration of the background and general characteristics of each period and the reading of representative selections from various authors.

Eng3-205E Nineteenth Century Poetry 3 semester hours

A study of the chief Romantic and Victorian poets from Wordsworth to Swinburne, with emphasis upon their artistic development and their relationship to the intellectual and literary scene of the nineteenth century.

Eng3-206E Modern Literature 3 semester hours

English and American literature is studied with emphasis on the transition from Victorian literature and on the development of modern literature.

Eng5-301 Chaucer 3 semester hours

A study of the development of Chaucer's versatile art and of his writings as expressive of the later Middle Ages will be made. The rudiments of Middle English will be taught as an aid to understanding the works of this greatest Middle English writer. The Canterbury Tales, The Book of the Duchess, The House of Fame, The Parliament of Fowls, and Troilus and Criseyde will be considered. Reading of Chaucerian English will be stressed, and recordings will be used.

Eng5-302 Creative Writing 3 semester hours

The aim of the course is to develop the student's writing ability and critical sense by the laboratory method and private conferences. Work of the students and of authors of established reputation will be read, analyzed, and discussed.

Eng3-303E
Eng5-303 Shakespeare 3 semester hours

Representative plays are studied; Shakespeare's life and times, his predecessors, and his contemporaries are evaluated.

Eng3-305E Eighteenth Century Literature 3 semester hours

The literature of the century is studied in two periods — the Age of Pope and the Age of Johnson — emphasizing in the first the classical tradition, and in the second, the approach to Romanticism.

Eng35-304E World Classics I: Ancient and Medieval

3 semester hours

This course presents a panoramic view of ancient and medieval world literature. Greek and Roman masterpieces are studied as well as representative works of the Middle Ages.

Eng35-306E World Classics II: Renaissance and Modern

3 semester hours

This course considers world masterpieces of the Renaissance and the modern period. There will be minor stress on English and American classics.

Eng5-308 Seventeenth Century English Literature

3 semester hours

This course will consist of a study of the prose and poetry of this era with special attention to the major works of Jonson, Donne, and Milton.

Eng5-307E The English Renaissance 3 semester hours

This study of the great liberating and humanistic period of transition which ended the Middle Ages and ushered in the modern world and which is referred to as "The Renaissance" will consider authors who flourished between 1485 and 1603.

Eng3-404E
Eng5-401, 402 World Drama 6 semester hours

This course comprises a study of the major forms of world drama from the origins. Emphasis is placed upon representative authors from Aeschylus to the present time with some attention to the survival of the older forms upon the modern stage.

Eng5-403 Literature of the Romantic Period 3 semester hours

This course will consider the poetry and prose of the Romantic Period with special emphasis on the poetry of Wordsworth, Coleridge, Shelley, Byron, and Keats. The Romantics will be considered from modern critical views as well as from contemporary attitudes.

Eng5-408 Literature of the Victorian Period 3 semester hours

This course will consider the poetry and prose of the Victorian Period with special emphasis on the poetry of Browning, Tennyson, and Arnold. Prose writers such as Carlyle, Ruskin, and Newman will be studied for the impact of their ideas on their contemporaries as well as on the modern mind.

Eng1-310 Oral Interpretation ½ semester hour

This course is designed to integrate the reading and presentation of material to the particular grade in which the student is interested.

Eng1-406
Eng5-406E Contemporary Literature 3 semester hours

This course provides a study of contemporary fiction and nonfiction as a reflection of life in the twentieth century. Emphasis is placed upon critical evaluation of the major literary trends of the present: experimentation with forms, the development of realism and naturalism, and the preoccupation with problems of national and international significance. Attention is given to the extension of the student's reading interests and the improvement of his literary tastes.

DEPARTMENT OF FINE ARTS

FA1-202
FA3-301
FA5-102 Art Essentials 3 semester hours

This course is organized to provide a foundation for appreciating the art of all times. Creativity in its four stages — searching, incubation, illumination, and communication — is the principle of organization.

FA1-201
FA5-103 Introduction to Music 3 semester hours

A preliminary course designed to acquaint students with the basic materials of music; singing and auralization of rhythmic, intervallic, and melodic materials; development of ability to translate ideas into simple notation. Course also includes directed listening, and use of simple percussion, melodic, and chordal instruments.

FA3-303 History and Literature of Music 3 semester hours

Historical and critical study of music and its role in civilization from the Middle Ages to modern times; lectures, discussions, and illustration of forms of music composition through the medium of fine recordings. Live concert attendance represents an important phase of this course; in addition, special listening facilities are available to students outside of class. Course does not presuppose a technical knowledge of music.

DEPARTMENT OF FOREIGN LANGUAGES

FL4-101E
FL5-101 Intermediate French I 3 semester hours

Prerequisite for this course: two years of high school French or the equivalent.

This course includes a review of French pronunciation, based on a study of phonetics and the principles of intonation; a review of grammar and verb forms through application in both composition and conversation.

FL4-102E
FL5-102 Intermediate French II 3 semester hours

A continuation of Intermediate French I including an introductory study of French civilization and culture with some representative readings.

FL3-201E, 202E
FL5-201, 202 Survey of French Literature 6 semester hours

A general view of French literature from the Middle Ages up to and including the rise of contemporary literature. Readings of the representative authors are studied in the light of the historical and social background of each period.

FL3-304E
FL5-301, 302 Advanced French Composition 3 semester hours

Review of pronunciation with exercises in phonetic transcription; review of more difficult points of French grammar; advanced

study of idioms; conversation with attention to intonation patterns; additional readings.

FL3-303E
FL5-303 Seventeenth Century French Literature 3 semester hours

A study of French classicism with intensive reading of the works of Corneille, Racine, and Moliere.

FL5-306 Eighteenth Century French Literature 3 semester hours

The study of French liberal thought as reflected in the works of Montesquieu, Voltaire, Rousseau, and Diderot.

FL5-305E Modern French Drama 3 semester hours

The study of examples of French drama from 1900 to the present. Readings and reports.

FL5-308E Symbolist Movement in French Literature
3 semester hours

The nature and development of the movement in France with a critical study of the most important authors and their works.

FL5-310E Study of the French Novel 3 semester hours

A study of the origins and development of the French novel through the 19th and 20th centuries with a critical consideration of the principal authors and their works.

FL3-402E, 404E
FL5-401, 403 Modern French Literature 6 semester hours

A brief review of Romanticism, followed by a study of French literature from 1850 to the present day with emphasis on main trends and readings of representative works.

FL5-408E French Theatre of the Classic Period 3 semester hours

The study of the philosophical and social background of the time with analytical study of some of the principal works of Corneille, Moliere, and Racine.

FL5-410E Rabelais in French Renaissance 3 semester hours

An analytic study of his work and style, reflecting the various phases of the early French Renaissance period.

FL5-406 Independent Study — French Language Seminar

3 semester hours

Reading in French literature designed to fit the needs of the individual undergraduate student. Instruction by conference and group discussion.

FL3-103E, 104E
FL5-103, 104 Introductory Spanish 6 semester hours

This course is an introduction to the Castillian via the conversational method. It includes simple composition, pronunciation, and simple readings of literature, culture, and civilization.

FL3-203E, 204E
FL5-203, 204 Intermediate Spanish 6 semester hours

This intermediate course consists of composition, conversation, and pronunciation. Spanish culture and civilization are emphasized through readings such as an abridged **Don Quijote.**

DEPARTMENT OF GEOGRAPHY

G4-201 Principles of Geography 3 semester hours

The fundamental aims of this course include an emphasis upon basic geographic principles and a broad overview of the field of geography. To attain these aims the student is introduced to geographic factors in land forms, location, climate, soils, minerals, flora and fauna together with examples of their influences upon and relationships to man and his activities.

G4-202 Geography of North America 3 semester hours

The primary aims of this course are two: first, to give the student an understanding of principles and techniques in the field of regional geography; and second, to broaden the student's knowledge of the continent in which the United States plays a major role. Major emphasis is placed upon natural regions in our own country.

G3-301E Geomorphology 3 semester hours

Emphasis is placed upon the study of the earth's surface features by examining their structure, by studying the processes that have been active in their formation, and by analyzing the ways in which they affect man and are affected by man.

G3-303E Climatology 3 semester hours

The major aim of the course is to gain an understanding of world climatic regions. The first half of the semester is devoted

to climatic principles; during the last half of the semester the application of these principles is stressed to learn world climates. The making of climatic charts and maps forms an important element in the course.

G3-302E Geography of Asia 3 semester hours

A geographic analysis is made of the physical and cultural environments of the various countries. Emphasis is placed on the rapid changes, developments, and problems confronting each nation today.

G3-304E Geography of Europe 3 semester hours

The arrangement and distribution of both physical and cultural features of the continent are first studied. This is followed by detailed consideration of the geographic nature of the individual countries.

G3-406E Political Geography 3 semester hours

The significance of geographic elements in the growth and structure of nations is analyzed. General consideration is also given to the importance of physical and cultural environment in the development of the political pattern of the world. Detailed studies are made of a few selected countries.

G3-404E Economic Geography 3 semester hours

A study is made of the geographic elements contributing to the localization of economic activities. The distribution, conditions of production, and trade in some of the primary commodities is studied in detail.

G1-401 Regional Geography — Western Hemisphere

3 semester hours

This course is a regional treatment of the political and cultural geography of the Western Hemisphere. Special attention is given to the changing character of the Anglo-American landscape and the attendant political and cultural significance of these changes. The contributions of Latin-American regions to hemispheric solidarity and their political and social problems are treated in the second half of the semester.

G1-402 Regional Geography — Eastern Hemisphere

3 semester hours

The first half of the course is concerned with the nature of the Central Eurasian Barrier, its extent, and the effect of it on the countries to the north and south of it.

The second half of the semester deals with such problems as the emerging importance of the Mediterranean region of Africa and Southeast Asia. Other problems include the political and cultural developments in the Nile Basin and its margins, the eastern plateau region, the great southern highlands, and the Basin of Africa. Some attention is given to the political and social problems present in these regions.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

HPE45-101, 102 Physical Education: Men (First Year)

1 semester hour

The development of health, poise, self-reliance, skill, leadership, and recreational interests is the purpose of the program. Opportunity to develop fundamental skills in a variety of activities is provided. The history and rules of various sports activities will be considered.

HPE45-103, 104 Physical Education: Women (First Year)

1 semester hour

Through a program of body mechanics sports, dancing, and other recreational activities, it is expected that the students will develop poise, good posture, self-confidence, leadership, skill, and physical fitness.

HPE4-105, 106 Health Education 2 semester hours

Problems and practices in personal and community hygiene are studied and discussed to aid the students in personal adjustment to college life and community. Current events in health supplement the class discussions.

HPE45-201, 202 Physical Education: Men (Second Year)

1 semester hour

The work of the second year follows closely that of the first year. Additional emphasis is placed upon exercises and tumbling activities appropriate to the elementary and secondary school programs.

HPE45-203, 204 Physical Education: Women (Second Year)

1 semester hour

The work of the sophomore year in physical education continues that of the first year. It is expected that each student will

work directly for her own development in poise, skill, leadership, and health, and will utilize knowledge of recreational sports in planning personal activities. Skill in the various sports activities is improved.

HPE4-301
HPE3-302 Physical Education: Men (Third Year) ½ semester hour

The emphasis in this course is upon such group games as quiet games, active games, singing games, and games with and without equipment. Students will have the opportunity to develop leadership by teaching and supervising several of these activities.

HPE1-206
HPE3-305 First Aid ½ semester hour

This is the standard first aid course as offered by the American Red Cross.

HPE4-303
HPE3-304 Physical Education: Women (Third Year)
½ semester hour

This course stresses the presentation and practice of teaching techniques and materials suitable for elementary school health and physical education. Secondary students have the opportunity to learn tennis, badminton, archery, and other sports for self development.

DEPARTMENT OF HISTORY

H45-101, 102 History of Western Civilization 6 semester hours

The purpose of this course is to familiarize the student with the important developments in the history of European civilization. Among the topics to be studied in the first semester are: prehistoric man and the dawn of civilization, Eastern Mediterranean civilizations, the culture of the Roman Empire, the rise of Christianity and Islam, Feudalism, church and state in the Middle Ages, the Renaissance and the Reformation; in the second semester: the commercial revolution, the expansion of Europe, the intellectual revolution, the industrial revolution, the French Revolution and its consequences, the growth of democracy, imperialism, the World Wars, the world today.

H4-103E, 104E World Affairs 6 semester hours

The objective of the course is to acquaint the student with the major problems of world politics. Emphasis will be placed on the

problems of United States foreign policy. The course will include the role of diplomacy, the factors that produce foreign policy, the recent evolution of United States foreign policy, the foreign policies of selected states, the organization for world peace, and a survey of contemporary problems by regions.

H45-201, 202 United States History and Government

6 semester hours

Topics studied in this course are European influences in the colonization of America, the American Revolution and the formation of new government, westward expansion of the United States, the Civil War, the economic revolution following the war, the reaction against the new economic forces, the breakdown of industrialism, and the "New Deal." The course uses the facts of American history and government as a foundation for a solid interpretive study of those political, social, economic, diplomatic, and cultural movements which have been important in the creation of the society in which we live. State and national governmental organization and function are studied as an integral part of the course.

H3-203E
H5-308E Modern History of Western Europe 3 semester hours

A review of special phases of the political, social, and intellectual development of the Western European countries in the period since 1815.

H3-204E
H5-401 Diplomatic History of Modern Europe 3 semester hours

This course examines the causes of World Wars I and II and attempts a synthesis of the international relations of the Great Powers as revealed in the political impasse of our times. Contributing topics include: nationalism, industrialism, militarism and navalism, the alliance system, collective security, totalitarianism, economic depression, and technology. The problems of the present foreign policy of the United States will be related to the foreign policies of the Great Powers, region by region.

H3-303E
H5-303 Colonial American History 3 semester hours

This course begins with the European background and the reasons for the colonization of North America. Intercolonial rivalries are considered, as are British colonial policy, the development of individual colonies, and the pattern of English-American culture.

H3-304E
H5-305 The Era of Nationalism and Sectionalism, 1828-1877
3 semester hours

This course surveys the social, political, and military history of the Middle Period and the Civil War generation. Intensive study will be made of selected themes and reference will be made to the vast literature dealing with this crucial era.

H5-307E Pacific Area and the Far East 3 semester hours

This course will consider the historical development of United States interests in the Pacific and the Far East from the time of American independence to the present, with emphasis upon the creation and implementation of Far Eastern policy in the twentieth century.

H3-302E
H5-302 Ancient History 3 semester hours

This course provides for an intensive study of some of the significant periods: Egypt in the Pyramid Age, the Age of Pericles, Alexander's Empire, the Augustan Age. Under each period, industry and commerce, government, art, literature, and social organization are considered.

H3-301E
H5-306 History of United States Foreign Policy 3 semester hours

This course seeks to give the student an understanding of the determination and implementation of United States foreign policy through detailed historical analysis of significant themes and basic concepts.

H5-310E The Age of Discovery, 1450-1600 3 semester hours

A study of the expansion of Europe and the formation of the great overseas empires during the fifteenth and sixteenth centuries.

H5-309E History of England 3 semester hours

This course is designed to acquaint the student with the basic history of England and the development of its political structure. The growth of the party system will be examined together with the evolution of the cabinet, the development of English society, and the contributions of outstanding individuals.

H5-403 Cultural History of Europe 3 semester hours

A review of special phases of the political, social and intellectual development of the Western European countries will serve as the basis for this course.

H3-402E
H5-402 The Emergence of Modern America, 1877-1915

3 semester hours

A study of special phases of the era of industrialization, urbanization, science, professionalization, and specialism, with particular reference to political currents, economic change, and social and intellectual development.

H5-311E History of Latin America 3 semester hours

This course consists of a survey of Latin American history stressing the evolution of cultural and political patterns which define Latin American societies. The course is designed to clarify contemporary economic, political and cultural problems which confront a region undergoing rapid change.

H5-312E Modern Russian History 3 semester hours

This course will examine the major political, intellectual and diplomatic currents of Russian history from Ivan the Great to the present. Special attention will be devoted to Soviet foreign policy since 1917 with the emphasis on organizational features, strategies and objectives pursued by Soviet diplomacy.

H5-314E Modern Far Eastern History 3 semester hours

This course seeks to give the student an appreciation of a great civilization radically different from our own, and a clearer understanding of the complex problems of the Far East and of American policy there. The approach is interdisciplinary but based on an historical framework. The focus is on China and Japan, but Korea and Southeast Asia are also included. Special attention will be devoted to the emergence of democracy, intellectual developments and Communism.

H3-404E
H5-404 Early National Period of the United States, 1783-1829

3 semester hours

A study of selective themes in the era of revolution, the War for Independence, the Confederation, the Federalist and Jeffersonian regimes, and the rise of American nationality in the era of good feelings.

H5-406E Twentieth Century America, 1915 to the Present

3 semester hours

This course deals with the contemporary American civilization as seen in its recent historical development. Among the topics to

be reviewed will be America in World Wars I and II, the economic, social and intellectual developments of the 1920's, the great depression, the New Deal, the era of Truman and Eisenhower, and America in the Cold War.

DEPARTMENT OF MATHEMATICS

M-01 Mathematics Review non-credit.

This course is required for freshman students who show the need for improvement in their mathematical skills and problem-solving techniques.

M4-102
M5-101 Introduction to Mathematics 3 semester hours

This course reviews briefly elementary and secondary mathematics and presents an introduction to advanced mathematics. New methods of presentation, including definitions, properties and postulates, will be stressed. The course covers arithmetic fundamentals, linear and quadratic equations and inequalities, ratio, proportion, variation, logarithms and trigonometric solution of triangles.

M4-103E, 104E College Algebra and Solid Geometry
6 semester hours

All those who plan to train as teachers of mathematics in the junior or senior high schools **must** take this course as one of their freshman electives. This course extends the advanced topics of **Introduction to Mathematics** and also covers binomial theorem, mathematical induction, permutations and combinations, determinants, series, probability, and statistics. Solid geometry treats of three dimensional relationships such as lines and planes in space, prisms, pyramids, cylinders, cones, and the sphere.

M3-201E, 202E Introduction to Mathematical Analysis
6 semester hours

Prerequisite: Advanced Algebra and Solid Geometry.

This course covers trigonometric identities and equations, analytic geometry, and differential and integral calculus.

M3-301E, 302E Calculus 6 semester hours

Prerequisite: Introduction to Mathematical Analysis or its equivalent.

This course is designed to go more deeply into the theory and application of differential and integral calculus. It includes work in the fields of differential equations, vector analysis, and infinite series. Set theory will be analyzed.

DEPARTMENT OF PSYCHOLOGY and PHILOSOPHY

P4-101
P5-102 General Psychology 3 semester hours

The objective of this course is to present the principles of general introductory psychology with emphasis on psychology as a fundamental science with application to selected problems of everyday life. The course encompasses units of study in the following areas: scientific methods of studying human behavior, the brain and the nervous system, techniques of study, maturation and development, attention and perception, learning and remembering, frustration and conflict, social behavior and personality development.

P1-302 Child Psychology 2 semester hours

The course is centered about methods and viewpoints in child psychology, heredity and environment, maturation, growth and development of meaning, learning, social and ethical behavior, personality, and examination of the work of modern child research centers. Directed individual observation and study of children form the basis of the course. Independent case studies of elementary school children are undertaken by each student under the guidance of the instructor.

P15-301
P3-304 Educational Psychology 3 semester hours

A functional study is made of the problem of growth, learning, and guidance from the viewpoint of mental hygiene. Among the topics considered are: the learning process, relationship of intelligence and achievement, personality, and adjustment to living with specific reference to teaching and special emphasis on the results of modern research.

P1-402 Psychology of Personal Adjustment 2 semester hours

The purpose of this course is to consider the development of the health and personality of the student, the family, and the teacher. There is special emphasis on the contributions of constitutional and environmental factors to adjustive behavior and the establishment of values as applied to teaching and life. Techniques for appraising the degree of adjustment are presented and discussed. Observation and field trips to social agencies and institutions are arranged.

P3-401
P5-406 Psychology of Adolescence 2 semester hours

A general survey is made of the physical, mental, and sociomoral aspects of adolescence. Among the topics considered are the adolescent and his emotions, his interests, ideals, and ambitions.

Directed individual observations and study of the adolescent form the basis of the course. Independent case studies of junior high and high school pupils are undertaken by each student under the guidance of the instructor.

P5-404 General Philosophy 3 semester hours

The aims of this course are to acquaint the student with the general problems of philosophy, the principal philosophic methods and the great philosophers. Cosmology, ontology, logic, epistomology, ethics and aesthetics, and the various philosophic schools will be emphasized.

DEPARTMENT OF SCIENCE

S45-101, 102 Biology 6 semester hours

This is a general course dealing with the fundamental facts and principles of biology, including the nature and dynamics of living systems; human, animal, and plant biology; reproduction; heredity; organic evolution. It aims to create a better understanding of the phenomena of life as they relate to man and related aspects of his environment.

S3-208E Anatomy 3 semester hours

The fundamental principles of the structure and the future of the human body under normal conditions are offered in this course. Particular emphasis is placed on the physiological activities of the circulatory, nervous, reproductive, and endocrine systems.

S4-103E Botany 3 semester hours

This course considers the plant kingdom — including the taxonomy, natural history, significant anatomy, life cycles, and evolutionary relationships of selected groups. Taxonomic methods are reviewed; representative specimens are identified, classified, dissected, and studied macro- and microscopically in the laboratory.

S4-104E Invertebrate Zoology 3 semester hours

This course considers the anatomy, taxonomy, natural history, and evolutionary relationships of selected invertebrate phyla. The history of taxonomy is considered — including a review of the establishment and function of the International Congress of Zoological Nomenclature. Detailed consideration is given to selected articles of its code. Representative specimens are identified, classified, and dissected in the laboratory.

S3-203E Microbiology 3 semester hours

This introductory course in microbiology stresses the inter-relationship of parasite, host, and environment. It first considers the morphology and physiology of the parasite; then focuses upon the host in stress factors, infection and immunity; and finally probes into the environmental (epidemiological) aspects of microbiology. Microbiological techniques and appropriate experiments are stressed in the laboratory.

S45-201, 202 Physical Science 6 semester hours

This is a survey of all of the physical sciences. The greater portion of the material will be in the field of physics. However some topics in chemistry and astronomy will also be included. Students are given frequent opportunities to participate in the conducting of experiments and to demonstrate scientific procedures. A working knowledge of arithmetic, elementary algebra, and plane geometry is essential to this course.

S3-205E
S5-205 Physics I: Mechanics and Heat 3 semester hours

Prerequisites: College Algebra and Solid Geometry.

This course consists of a study of vectors, kinematics, fluids at rest, fluids in motion, heat, thermo-dynamics, heat transfer, and other related topics. Students will perform individual experiments to enable them to grasp more fully the scientific laws and principles presented in the course.

S3-206E
S5-206 Physics II: Light and Sound 3 semester hours

Prerequisite: Physics I.

This course consists of a study of wave motion in general and of light and sound in particular. Included will be such topics as: the velocity of light; reflection, refraction, and polarization; lenses; diffraction; intereference; dispersion; the physics of music; acoustics. The procedure will be the same as in Physics I.

S3-406E, 408E
S5-406, 408 Physics III: Magnetism and Electricity
6 semester hours

Prerequisites: Physics I and II.

This course will consist of a study of static and current electricity. The topics to be covered will include: electrostatics, Ohm's law, series and parallel circuits, energy and power, magnetic fields, magnetic induction, induced currents, alternating current, trans-

formers, vacuum tubes. The course will be presented in a manner similar to that followed in Physics I and II.

S3-301E
S5-301 General Chemistry I 3 semester hours

An elective course for first-semester Juniors. This course stresses the principles of Chemistry and modern concepts of atomic structure. Topics include: quantum theory, chemical equations, the chemical bond, states of matter, solutions, and the elements of thermodynamics. Two lectures and one double laboratory period per week, and student demonstrations.

S3-302E
S5-302 General Chemistry II 3 semester hours

An elective course for second-semester Juniors. A continuation of General Chemistry I, this course stresses oxidation and reduction, chemical kinetics, equilibrium in solutions, electrochemistry, nuclear chemistry, and the descriptive chemistry of the elements. The laboratory portion of the course is devoted to Qualitative Analysis. Two lectures and one double laboratory period per week. Prerequisite: General Chemistry I.

S3-402E, 404E
S5-402, 404 Organic Chemistry 6 semester hours

An elective course for second-semester Seniors. This course presents an integrated approach to aliphatic and aromatic organic compounds. Organic reactions are studied in terms of electronic theory and molecular geometry. Standard laboratory operations and syntheses are developed in the laboratory. Four lectures and one laboratory period per week. Prerequisites: General Chemistry I and II.

DEPARTMENT OF SOCIAL SCIENCES

SS3-202E Education for Citizenship 3 semester hours

This course acquaints the student with the principles of good citizenship. Particular study is made of the problems of juvenile delinquency, voting apathy, and attitudes toward state and federal law enforcement agencies.

SS3-406
SS5-201
SS1-401 Economics (Secondary) 3 semester hours
(Elementary) 3 semester hours

The basic objectives of this course are to enable students to understand the nature of the American economy and its persistent

problems of growth and stability. Content includes analysis of the national income; the study of demand, supply, and price; the organization of industry; money and banking; monetary and fiscal policy; and international trade. The principles will be illustrated through solution of selected problems. Stress will be laid on the American economy as a whole.

SS3-404
SS5-204
SS1-402 Sociology (Secondary) 3 semester hours
(Elementary) 3 semester hours

This course is designed to acquaint the student with man's cultural heritage, the environmental and biological forces that shape personality, the influence of the group on the individual, the nature of social institutions, and the character of social change. Stress is placed upon contemporary American society.

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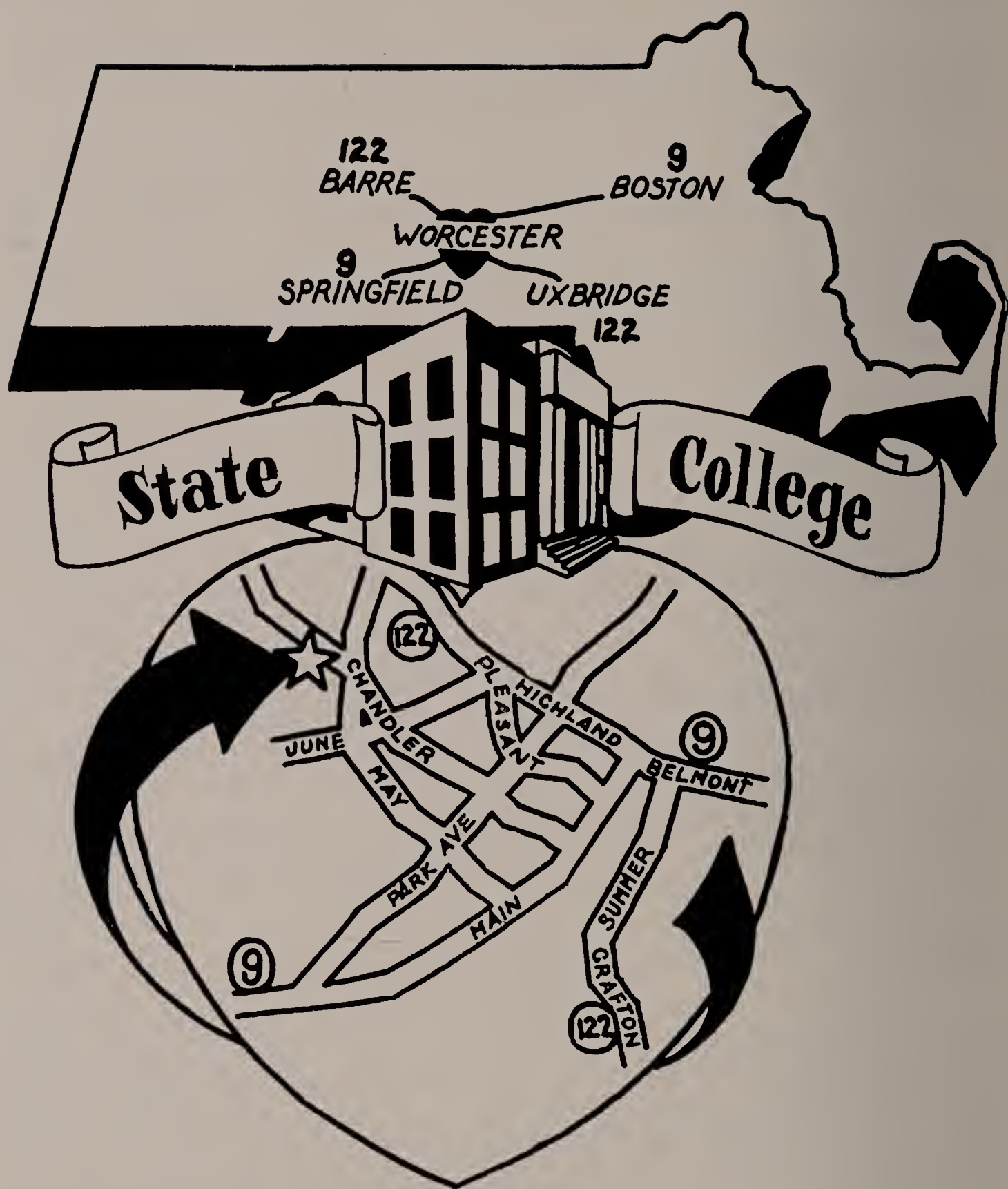
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